CLAIMS 1 2 I claim: 3 A composite scaffolding plank comprising: 1. 4 a plurality of wooden boards each having a lengthwise direction, two opposing 5 sides being flat and extending parallel to said lengthwise direction, each of said sides 6 having a height, said height being the smallest dimension of said wooden boards; 7 said plurality of wooden boards positioned in side to side parallel abutment; 8 at least three spaced helical pins extending transversely through said plurality of 9 wooden boards, normal to said wooden board sides and normal to said lengthwise 10 direction; and 111 12 13 14 14 115 16 said plurality of wooden boards being held together in compression by said helical pins. 2. A composite scaffolding plank as in claim 1 wherein said plurality of wooden boards comprise three of said wooden boards. 17 3. A composite scaffolding plank as in claim 1 wherein: 18 each of said plurality of wooden boards having a length and including a top and 19 two opposing ends; 20 said wooden board tops being co-planar; said wooden board lengths being substantially equal; and 21 22 said wooden board ends forming a substantially continuous surface. 23

1	4.	A composite scaffolding plank as in claim 1 further comprising:		
2		said plurality of wooden boards having a transverse bore extending substantially		
3	therethrough for each of said helical pins;			
4	so that	t said transverse bore facilitates placement of said corresponding helical pin in said		
5	plurality of wooden boards.			
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7	5.	A composite scaffolding plank as in claim 1, wherein each of said at least three		
8	space	d helical pins has a square cross section.		
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<u>⊨</u> 10	6.	A composite scaffolding plank as in claim 2, wherein said three wooden boards		
<u> </u>	compi	rise a middle board and two outer boards;		
111 112		said three wooden boards each having a wood grain direction; wherein		
11 11 12 12 213		said middle board is oriented such that the direction of said wood grain of said		
14	middle board alternates against said wood grain direction of said two outer boards.			
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15	7.	A composite scaffolding plank comprising:		
17		a plurality of wooden boards;		
18		each said wooden board having a rectangular prism shape;		
19		each said wooden board having a length, a first end surface, a second end surface,		
20	a top	surface, a bottom surface, and two opposing side surfaces;		
21		each said side surface being narrower than said top surface, said top surface		
22	havin	g a width equal to a width of said bottom surface:		

1		said plurality of wooden boards positioned with at least one of said side surfaces		
2	of eac	of each said wooden board in parallel abutment to at least one side surface of another said		
3	wooden board;			
4		said top surfaces of said wooden boards being co-planar;		
5		at least three spaced helical pins extending transversely through said plurality of		
6	wooden boards, normal to said opposing side surfaces; and			
7		said plurality of wooden boards being held together by said helical pins.		
8	,			
9	8.	A composite scaffolding plank as in claim 7, further comprising:		
10		all said first end surfaces of said plurality of wooden boards being co-planar; and		
11 11 112		all said second end surfaces of said plurality of wooden boards being co-planar.		
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13	9.	A composite scaffolding plank as in claim 8, wherein said plank has a nominal		
14	height	of 2" and a combined nominal width of 10".		
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了 16 上	10.	A composite scaffolding plank as in claim 9 wherein said plurality of wooden		
17	boards	s comprise a first wooden board, a second wooden board and a third wooden board.		
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19	11.	A composite scaffolding plank as in claim 10, wherein:		
20		said top surface and said bottom surface of said first wooden board have a		
21	nominal width of 4";			
22		said top surface and said bottom surface of said second wooden board have a		
23	nominal width of 3";			

1		said top surface and said bottom surface of said third wooden board have a
2	nomin	al width of 4";
3		said opposing side surfaces of said first wooden board have a nominal height of
4	2";	
5		said opposing side surfaces of said second wooden board have a nominal height
6	of 2";	and
7		said opposing side surfaces of said third wooden board have a nominal height of
8	2".	·
9		
10	12.	A composite scaffolding plank as in claim 7, wherein all said lengths of said
11	plurali	ty of wooden boards are approximately equal.
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13	13.	A composite scaffolding plank as in claim 7, wherein said plurality of wooden
14	boards	s comprises a middle board and two outer boards;
15		said plurality of wooden boards each having a wood grain direction; wherein
16		said middle board is oriented such that the direction of said wood grain of said
17	middle	e board alternates against said wood grain direction of said two outer boards.
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19	14.	A composite scaffolding plank as in claim 7, wherein said wooden boards having
20	a mod	ulus of elasticity in the range of 1.6×10^6 to 1.8×10^6 .
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22	15.	A composite scaffolding plank as in claim 7, wherein said wooden boards having

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a fiber bending value of 2200 psi.

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2 16. A composite scaffolding plank comprising a plurality of wooden boards held

3 together in compression by a plurality of helical pins.